# ARMALITE AR-18 (AR-180) OPERATION & MAINTENANCE MANUAL

- \* General Data
- \* Accessories
  - \* Special Tools
    - \* Operation -- Usual & Unusual Conditions
    - \* Telescopic Sight
    - \* Repair
  - \* Cleaning
- \* Preventative Maintenance
  - \* Trouble Shooting
  - Disassembly/Assembly
     Replacement of Parts

Armalite, Inc.

Costa Mesa, California

# OPERATING AND MAINTENANCE MANUAL

# RIFLE, 5,56 - MM, AR - 18

Armelite, Inc. 118 Seel 16th Street Cette Meso, California

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CHAPTER

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8 Re 5 S6 m.m --- AR 18 Equip 1 1





Bille 5:56 m m. AB 18 Stock Folged Egypte 1:7

# CHAPTER I

# INTRODUCTION

### Section I

# 1-1. GENERAL.

1.2 SCOPE. This manual is published for the information and guidance of personnel responsible for operation and organizational maintenance of the Rife, 8.58 MM. AR-18. Information provided includes: tabulated data, accessories and special loois, preparation for use, operating instructions, preventive maintenance and lubrication procedures, inspection, trouble-shooting, recars parts procedures of instances.

### Section 2

### 1-3. DESCRIPTION AND DATA.

- 1-4. DESCRIPTION. The AR-18 rifle, (Figure 1-1), is light-weight, air-cooled, gas-operated, magazine-fed, shoulder or hip fired, and designed for either full automatic or semi-automatic fire. The rifle utilizes a 20-round magazine.
- 1-5. The manufacturer's name, serial number and capper is stamped on the left side of the upper receiver.
- 1.6. The barrel is air-cooled and is provided with a flash suppressor and recoil components, which across as a greaned suncher and front support for the bayonet. The harrel is surrounded by a heat resisting (Berglass material, which serves as a hand great and forestro. The hand country has a heat resisting material which serves as a hand great and forestro. The hand country has a heat resisting metal inner abided. The front service is salvatable for selection and the
- guard has a next resisting metal inner shield. The front sight is adjustable for slevation and the rear sight for windage.

  1.7. The ville has a folding buttatock. (Figure 1-21, The buttatock is made of a durable, syn-
- their material of high impact strength unaffected by exposure.

  1-8. The rifle is readily opened by pressing the guide spring plate forward, providing ready
- access for removal of the bolt carrier assembly and upper hand guard. Also accessibility to all other working parts for convenient clearing and inspection. If ever required, the manual charging handle provides a means of forcing the bolt forward to full lock position. 1-9. The bolt incorporates saves locking lune. Unon docising the bolt protests to engage saven
- 1-8. The bott incorporates saven locting lugs. Upon closing, the bott rotates to engage seven similar locking jugs in the barrel extension. Thus, the full force of the explosing of the carrelings is absorbed by the barrel extension and bott. No pressure is exerted upon the receiver. The receiver is made of bight-weight steel stampings. The design contributs to a high degree of safety, durability and performance of the rifle. Portability and logistical value is greatly increased due to resultant weight awrine.

### Section 3

# 1-10. TABULATED DATA.

1-11. Tabulated data pertaining to the general characteristics and performance are listed as follows:

/eig			
	AR-18 Rifle without magazine and aling	6.E	11
	Sling M1	.4	11
	Empty Aluminum magazine		
	Loaded Aluminum magazine	.7	1
	AR-18 Rifle with sling and loaded magazine	7.4	11
	Bipod M-3	.6	11
	Bipod Case	.2	11
	Bayonet-Knife M7	.6	t
	Scabbard M8A1	.8	1

Rifle with bayonet-	KD)[e 43.0 ]n.
Barrel	18 in.
Barrel with flash a	uppressor
Mechanical Features	
Refling, R.H. 6 gro	oves — 1 turn in 12"
Bore Maximum	.2190
Groove Maximum	2235
Sight Radius	
Trigger puli	
Maximum	8.5 jbs.
Minimum	5.0 ibs.
Method of Operation	on Gas
Type of Mechanism	n Rotating Boil
Mathed of Feeding	- Magazine 20 rds.
	Air
Cooling	Air
Cooling	
Cooling	5.56-mrr
Cooling	
Cooling	5.56-mm  Ball, Tracer & Grenade Launching (Blank)
Cooling	5.56-mir   Ball, Tracer A Grenade Launching (Blank)   Average
Cooling	5.56-mm  Ball, Tracer A Grenade Launching (Blank)  Average)
Cooling	
Cooling Ammunition Caliber Type Firing Characteristics Mussie Valocity ( Mussle Energy Chamber Pressure Clylic Rate of Fire	5.56-mm  Ball. Tracer A Grenade Launching (Blank)  Average)
Cooling Ammunition Caliber Type Firing Characteristics Muzzie Valocity ( Muzale Energy Chamber Pressure Clylic Rate of Fire Maximum Rate of	S.5-6-min   Ball. Tracer & Grenade Launching (Black)   Average)
Cooling Ammunition Caliber Type Type Characteristics Mussie Valocity ( Musale Energy Chamber Pressure Clylic Rate of Fire Maximum Rate of Semisutomatic	5.56-mm  Ball, Tracer A Grenade Launching (Blank)  Average) 320 fp.  1300 felb.  52,000 ps.  700-800 rds. per minut  45 65 rds. per minut
Cooling Ammunition Caliber Type Firing Characteristics Music Valocity (. Musale Energy Chamber Pressure Calyife Rate of Fire Maximum Rate of Semiautomatic Automatic	S.56-mir   Ball, Tracer & Grenade Launching (Bleak)   Average)
Cooling Ammanition Caliber Type Firing Characteristics Musale Energy. Chamber Pressure Clylic Rate of Fire Maximum Rate of Semiautomatic. Automatic Rate of I	5.56-mm  Ball, Tracer A Grenade Launching (Blank)  2820 fg 1  3200 felh  \$2,000 ps 2  \$2,000 ps em insulation  Fire  45.65 rds. per minute  102 000 rds. per minute  1215 rds. per minute
Cooling Ammunition Caliber Type Tring Characteristics Musia Fonery. Chamber Pressure Ciylic Rate of Fire Maximum Rate of Semiautomatie Automatic Sustained Rate of) Maximum Range.	S.56-mir   Ball, Tracer & Grenade Launching (Bleak)   Average)

Length

Rifle with flash suppressor-compensator
Rifle with bayonet-knife

# Table 1-1. ACCESSORIES

Hen	Identifying Number	Pigrare Number		
Bayonet-Knife AR-19	2862	2-9		
Biped, Rifle AR-18	2773.5	1-3		
Case, Biped	2864	1-8		
Scabbard, Bayonet Knife AR-18	2863	1.3		

Table 1-2. SPECIAL TOOLS.

Item	Identifying Number	Figure Number
Red, cleaning, small arms. AR-12	2866	1-3
Brush, cleaning, small arms	2867	1-3

- 1-12. ACCESSORIES AND SPECIAL TOOLS. 1.13 ACCESSORIES
- 1-14. Accessories are tabulated in Table 1-1 and listed in Apendix I, which is the authority for requisitioning replacements.
- 1-15. Special Tools.
- 1-16. Special Tools are tabulated in Table 1-2 and listed in Appendix I, which is the authority for requisitioning replacements.



Bayenet-Knife AR-18 and Sayonet-Scabbard, Bayenet-Knife AR-18



Rifle Bipod, AR-18 2773-5



Blpod Case - 2864



Small Arms Cleaning Brush - 2887



Small Arms Cleaning Rad - 2866

# CHAPTER II OPERATING INSTRUCTIONS

# Section 1

- 2-1 SERVICE UPON RECEIPT OF MATERIAL.
- 2-2. GFNERAL.
- 2-3. Upon receipt of the rifle, it will be inspected by the responsible individual to determine that it has not been damaged in-transit and is in proper condition for service.
- 2-4 All basic issue items, replacement perts, tools, and equipment checked as involced.
- 2-4 All basic issue items, replacement perts, tools, and equipment enecked as invoiced.
  2-5. A record will be made of all missing parts, tools, and equipment and any other deficiencies.
- in the shipment. Corrective action will be initiated by the responsible individual.
- 2-6 SERVICES.
  2-7 The rifle will be unpecked, all foreign matter removed from the surfaces of the weapon, assuming all components are clean. If necessary, the bore will be wiped clean by pushing clean, dis nathest through the barrel, from the chamber to the muzzle.
- 2-8. The rifle will be visually inspected for function to include proper scating of the magazine
  89. RIPOD
- 2-10 Foreign matter will be removed from the bipod and case, as necessary.
- 2-11 The bipod will be attached to the rifle to assure that the bipod is undamaged, smitable for non-
- 2.19 CONTROLS
- 2-12. CONTROLS.
  2-13. Refer to (Figure 2-1) for Controls and Operation of Controls.



Section 2

Remove Mossisine

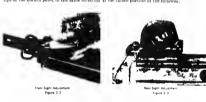
Figure 2.1

Cleaning Rille Inspect Chamber



Place Selector Lever in Safe Position

- 2-14 OPERATION UNDER USUAL CONDITIONS.
- 2-15. GENERAL.
- 2-16 PREPARATION FOR FIRING. Clear the rule by performing the following operations. Remove magazine, inspect chamber and place selector lever on "safe" position. (Fig. 2-1)
- 2-17. SERVICE BEFORE FIRING Refer to T 11es 3-2 and 3-3.
- 218. CLEAN AND LUBRICATE THE BOLT CARRIER GROUP. The bolt carrier group may be removed, as aboven in Figure 3-10. Remove any of or dirt from the calerand surface of the bolt and bolt carrier with a clean, dry rag or cleaning patches. Place a drop of oil in each of the two holes of the bolt carrier is deliberated the guide code and as drop on the body of the bolt carrier is deliberated the guide code and as drop on the body of the bolt carrier. A light film of grease or oil may be applied to the guide rail for the bolt carrier. A light film of grease or oil may be applied to the guide rail for the bolt carrier on the left number of the upper receiver.
- 2-19 LOADING. Note: Repeat Operation in (Figure 2-1). (Safety Procedure).
- 2-20. LOADING THE MAGAZINE. The magazine has a capacity of 20 rounds and may be
- loaded with any amount up to that capacity. The magazine has a respectly of 20 rounds and may be loaded with any amount up to that capacity. The magazine follower has a raised portion generally resembling the outline of a cartridge. Cartridges are loaded into the magazine so that the lops of the bullets point in the same direction is the raised portion of the follower.



2-21. LOADING THE RIFLE. The magazine may be inserted with the bolt and the bolt carrier open or closed. Hold the forearm of the rifle with the left hand, pointing the mustle in a safe direction. With the right hand, inserted is leaded imagazine into the imagazine housing. Push particularly the properties of the prop

# WARNING

Make sure the selector lever is on the "safe" position, if not ready to fire.



2-22. FtRING

2-23 SELECTOR LEVER The rifle may be fired semi-automatically or fully automatically by moving the selector lever to the appropriate position, described in Figures 2-1 and 2-5, 2-21. SEMI POSITION With the selector lever in this position, the rifle will fire one round each time the trigger is pulled.

2.55. AUTO POSITION. With the selector lever in this position, the rifle will continue to five multi-the magazini as empty or the trigger in extense. When the rifle is rifled on either SEMI or AITO, the bolt will lock in open position when the last round from a magazine has been fired. 2.28. WITH STOKE FOLDED. With the sack folded, the rifle may be freed and readily one trailled from the lup position. The selector lever must be positioned from the right aide of the rifle. as the folded stock prevents access to the lever on the left and oc. See Figure 2-8.

2.47. IMMEDIATE ACTION PROCEDURES FOR REMOVING A LIVE ROUND IN CASE OF FAILURE TO FIRE.

2.28. To apply immediate action, follow the sequence below
a. Wait 10 seconds, then pull charging handle fully to the real, observe for ejection of

cartridge or cartridge case.

1 If a cartridge is ejected, release charging handle to feed a new round.

If a carringe in species, release that ging insure to extract or feed has occurred.

Check for round in chamber. If chamber is empty, change magazines, reload and

attempt to fire the rifle.

b If a labove occurs, it may indicate a defective round, a broken firing pin, hammer

spring or a holt closure failure.
c. If a 2 above occurs, it may indicate a broken extractor.

2.29. MISFIRE, HANG FIRE AND COOK-OFF. In the event of failure of the rifle to fire when the trigger has been pulled and the hammer has failen, allow ten seconds to elapse in the event of a hang fire and then eject the round and attempt to fire Cook-off can only result from an excessively heated chamber, caused by full automatic fire requiring approximately 180-200.



Remove Balt Assembly Guide Rain and Sarring



rounds fired in a very minimum period of time. A cook-off can result when the primer is exposed to extremely high temperature, but still will require approximately 30 seconds for the heat to ignite the primer. In the event a cook-off occurs, immediately remove the magazine and eject the chambored cartridge. Under all above conditions be particularly careful as to the direction the rifle is pointed.

2.30 DOUBLE FEED Double feed may occur when initially loading the rifle. caused by failure to allow the first round to fully chamber and pulling the charging handle to the rear with the first cartridge still held by the extractor. The bolt carrier, going forward, will attempt to strip the second round from the magazine, resulting in a jammed condition. Remove the magazine and pull the charging handle to the rear, releasing the first cartridge.

- 2.31. UNLOADING. Repeat operation in figure 2-1 and 2-16
- 2-32. INSTALLING ACCESSORIES. freures 2-8 and 2-9.



Jump Pearing



Jump Pastien Fraure 7 65

### Section 4 2-33. OPERATION UNDER UNUSUAL

CONDITIONS If it is desired to fire the rifle with the stock folded, the user should become fully familiar with the operation of the selector lever from the right side of the rifle. The forefurger of the right hand should be used to allow the continued proper hold on the pistol grip (a left handed shooter would use the thumb of the left hand)

2-34. The rifle may be attached to the user for rump purposes, with stock folded or fully extended. See figure 2-6. 2.25 The rifle should be held when launching grenades from a hip position.

muzzle elevated, utilizing the sling. See figure 2-7 MOTE

The rifle should never be fired

from the shoulder when launching a grenade.





invanil Sevenet Knile Figure 7 B



Remove / Install Bused Figure 2-9

### Section 5

- 2-36. TELESCOPIC SIGHT, Fig. No. 2-10. The telescopic sight is one of extremely durable design with outstanding optical capabilities. It has a true 2.75X magnification.
- 2-37. The quick detachable mount allows immediate removal or installation. Regardless of the number of times removed, it will return to a positive zero due to the dove tail design of the base and mount. A tunnel over the sight allows use of the iron sight in case of such an immediate requirement.
  - 2-38 A range knob on top of the aight has 4 settings 1 for 1-200 yards; 1 each for 300, 400 and 500 vards. This rapid and positive elevation system contributes greatly to practical use in
- the field. The protective cap on the top of the range adjustment knob is removed by the use of the head of a cartridge. Sight elevation adjustments are made under this cap by rotating the elevation knob with the head of a cartridge in the direction of the arrow to move the point of impact up.
- 2-39. Dust covers are provided and they should be used at all times when the sight is not installed on the rifle or intended for immediate usa to protect the lens. 2-40. INSTALLATION. The sight is installed by compressing the safety lever on the front of
- the mount allowing it to clear the dove tall base on the rifle. The plunger at the year of the mount is pressed firmly against the front base of the rear sight, compressing the spring allowing the scope mount to slide foreward on the base.
- 2-41. The aight incorporates an inverted post as well as fine crosshairs. When "holding over" at extreme ranges, this precludes the post from blotting out the target. This comparatively heavy post allows positive point of aim in times of near darkness when the fine cross hairs tend to disappear against the background. 2-42. MAINTENANCE.
  - - 1. Use lens covar at all times when the aight is not in use on the rifle.
    - 2. Check periodically to assure all caps and screws are saug and in place.
    - Oil the spring plangers lightly. 4. Oil the base occasionally to facilitate mounting and to present rusting.



Fepure 2 10

# CHAPTER III ORGANIZATIONAL MAINTENANCE INSTRUCTIONS Series |

# 3-1 REPAIR PARTS, TOOLS AND EQUIPMENT.

- 3-2. GENERAL.
- 3-5. This chapter lists repair parts, common tools and equipment and special tools and equip-

# ment.

3-4.	REPAIR PARTS (2	nd Echelon)	
	7ART HG 2666-A	Extractor	94AM1117 29
	2671-C	Firing Pin	3
	2673-B	Take Down Pin, Bolt	3
	2668-A	Spring, Extractor	29
	2715-C	Spring, Firing Pin	3
	2678-A	Spring, Operating Rod	2

3.5. ACCESSORIES AND SPECIAL TOOLS, Accessories and Special Toole are tabulated in Table 3-4.

# 3-6. LUBRICATION.

# 3-7. GENERAL. The suffic should be cleaned and lubricated at the end of each day'e use, or

- when exposed to an executive amount of slit, grit, or other foreign matter and/or water. The right should not generally be first beyond 200 rounds without being cleaned, although, under normal confitton, the rifle can be expected to perform reliably up to approximately 1,000 rounds without cleaning. For best confitued operation, all surfaces should be prodeted by a very light film of all except under substress temperatures all of should be removed from moving components. The rifle can function completely dry, shhough lack of hibranch is undesirable, due to resultant excessive wear. NOTE: Keep the gas poston clear of excess of the present each (formation of action).
- 3.8. CLEANING AND LUBRICATION AFTER FIRING.
- 3-9. CLEANING AND LUBRICATING THE BARREL.
- a. Attach the wire brush to the deaning rod, dip in solvent cleaning compound and brush the boie thoroughty. Do not submerge barrel in cleaning solution. The gas piston should not be allowed to fill with oil. Brush the bore from chamber to muzzle, using etrapht-through strokes.

# NOTE

# Do not reverse direction of brush while in bore.

Push the brush through the bore until it extends beyond the muzzie. Continue until the bore to uell covered in its abovent. Remore the brush from the rod, and dry the bore by pushing through clean, dry patcles. Continue until patches come out clean and dry.

b. Clean the locking lugs in the berrel extension, just to the rear of the chamber, Brush the lugs with a small brush.

c. After cleaning, lubricate the bore with a lightly oiled patch to prevent corrosion and pitting. Lightly, oil the lugs in the berrel extension.
d. Remove the individual component parts of the operating rod. Wine clean with oil.

soaked patches. Use the cleaning rod with the brush to clean the gas piston. Remove any excess oil. See Figure 2-6.

- 3.10 CLEANING AND LUBRICATING THE BOLT CARRIER GROUP
- a Remova the holt carrier group from the upper receiver. Field strip the holt carrier group. Wash all external surfaces with a petch saturated in solvent eleaning compound. b. Using a small brush dipped in solvent cleaning compound, acrub all carbon deposits
- and dirt from the locking lugs of the bolt.

### CAUTION

Brush the face of the bolt, paying particular attention to area under the face of extractor. Do not attempt to remove discoloration caused by beat.

When dry, lightly oil the surface of the bolt carrier and place one drop on the bolt body. See figure 3-20.

- 3.11. CLEANING AND LUBRICATING THE LOWER RECEIVER GROUP.
  - a. Wipe any particles of dirt from the trigger mechanism with a clean patch or brush. b. Place a drop of oil on each of the pins and the stock hinge and release plungers. Sertion 3
- 8-12. PREVENTIVE MAINTENANCE SERVICES. 2-13 GENERAL
- 3-14. RESPONSIBILITY. It is the responsibility of the operator to assure his rifle is properly lubricated at all times and is in proper functioning order. If the rifle appears to not be functioning normally, it will be reported to the responsible organizational personnel. (Table 3-1) . It will be the responsibility of organizational maintenance personnel to make minor repairs, as
- indicated in Table 3-8. 3-15. GENERAL.
- 3-16. GENERAL PROCEDURES. Organizational maintenance personnel will be responsible for the care and preventive maintenance of the rifle when in temporary storage and/or undergoing routine inspection. These personnel are responsible for assurance that the rifle is being properly maintained by the operator and only re-issued when in proper mechanical condition. Evidence of component failure or wear will be raported to higher authority, consistent with

# Section 4

8-14 TROUBLESHOOTING

standard operating instructions.

3-15. SCOPE. The following information is to assist the operator and organizational maintenance personnel to restore inoperative or worn, or damaged equipment to a satisfactory operating condition. This includes both determination of the cause (trouble shooting) and corrective action. All repair maintenance indicated shall be performed only by qualified personnel utilizing standard service equipment, Tabis 3-1.

Me I function	Probable Cause	Remody
Bolt feels to lock to the rear efter last round	1. Faulty magazine	Replace magazine
Failure to feed	Faulty magazine.     Ruejag holt and bolt carrier in locked position.	Replace magazine Dississenble and clear (on a new weapon, one ar twe drops of eil en the guide rods may reinedy this tirouble). Check tirting pin and spring and oil. Clean and lubricats belt and carrier, higher esbelon.
Fadure to fire	Improper assembly of firing pin.     Improperly installed hammer or lrigger spring.     Obstructed chamber.	Reinstall firing pin and check bolt taledown pin for damage. Also check spring and replace if broken. Disascenthic and install properly. Clean.
Fires with selector lever on SAFE.	Faulty selector lever.     Faulty or musclined trigger pin.	Higher echolen.
With selector lever on SEMI, fires when trigger is released.	Faulty or misslined trigger pin.     Paulty or misslined trigger pin.     Paulty hammer or trigger.	Notify higher scholer. Notify higher scholer.
Bolt scines, will not rotate.	Carbon dirty or burred bolt group.	Hold rifle in vartical position and strike butt sharply on ground while pushing down on cherging handle. Clean on necessary.

### . . .

3-16. MAINTENANCE OF RIFLE.

3-17. DISASSEMBLY/ASSEMBLY. This section contains instruction on disassembly, assembly and maintenance, before and after firing. For disassembly and assembly instructions, see figures 3-1 thru 8-19.



85te 556 mm At 18 Mojer Groups France 3.1



Semove: Install Operating Real Assembly Figure 3.2



Remove/Install Hammer Pin Figure 3.3



Remove Morad Hammar and Hammer San 1 Frgure 3 &



Disengage Remove Scien Figure 2.5A Selector Sever



Disengage Remove Selector Jever Figure 3.58



Remove/Install Trigger File Equity 2.6





Pernave Install 7r ager Figure 3-7



Disengage/Engage Yakedown Figure 3 B



Withdraw/Inset Charging Handle Figure 3 P



Remove/Install Batr Carrier: Curie-Rade und Grode Bad Springe Espire 3:10



Remove/Install Slaper Hand Guard Figure 3 T1



Remove/Install Friing Pin Retoining Pin Figure 3-12



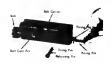
Remove/Instet Belt Com Pro unal Belt Figure 3 15



Remove/Install Filing Pin Reteining Pin Figure 3-13



Nemove/Install Extractor Figure 3 (do



Remove/Install Frang Pin Figure 3-14



Bair Assembly Enguly 3 166

- CLEANING, INSPECTION AND REPAIR. 3-18.
- BEFORE FIRING. The rifle should be inspected as indicated in Section 3. Chapter II. 3.19
- 2-14 3.26 AFTER FIRING.
  - a. Cleaning after Firing: Table 3-2 and 3-3.
  - b. Inspection after Firing: Table 3-4.
- 3-21. REPLACEMENT OF PARTS.
- All replacement perts are interchangeable and require no adjustments when being in-3-22. stalled in this rifle. However, to insure proper function and full reliability, the following precautions should be taken:
- a Do not interchange bolts, bolt carrier; and barrels. Keep the bolt carrier assembly with its original barrel to assure retention of extrect headspace.
- b. If replacement of either part becomes necessary, carefully check the new part to see that it fits properly and operates amouthly.
- 3-23. FUNCTION CHECK.

### NOTE Remove Magazine

3-24. A complete function check of the rifle consists of checking the operation of the rifle while the selector lever is in the SAFE, SEMI, and AUTO positions. The following sequence is used for a rapid, complete check, Any portion of the check may be used alone to determine the operational condition of any specific fire selection. Start with the upper and lower receiver groups in the open position.

# NOTE

# Receiver is in open position

- a. SAFE position, Cock hammer and pull trigger, Hammer should not fall. h. SEMI position. Pull trigger. The hammer should fall. Hold trigger to rear, recock
- hammer and release trigger. Hammer should transfer from disconnect to the hammer and sear engagement.

### NOTE

Receiver is in closed position

- c. AUTO position. Pull trigger, hammer should fall. Hold trigger to the rear and operate charging handle, recocking the hammer, Release charging handle. The hammer should fall, Release trigger and operate charging handle, cocking hammar. Release charging handle, Hammer should not fall. For further safety check, while cocked with safety on, rap butt on floor. If hammer falls, turn in for repair.
- d. SEMI position. Pull the charging handle to the rear, Inspect the chamber for safety and release charging handle. Pull the trigger, Hammer should fall.



Belt Cerner Group Pers Figure 2-17



Disassemble / Assemble Mirgos ne Figure 3 11b



Disengege: Engage Receiving Pivot Pin Fegure 3-18



Cleaning and Lubricating the Belt Corner Group Figure 3-29



Figure 3 11%



PREVENTIVE MAINTENANCE SERVICES

	I	Operator			Dally Schedule	
Before Firing	During Firing	After	Item to be Inspected	Procedures	Paragraph References	
1			Serrei Amembly	Wipe oil from bore and chamber.		
z	M	М	Bolt As- sembly & Barrel	Retract bolt to saure free move- asent between bolt carrier and re- ceiver.		
*			Rifle	Hand function to samure proper operation.		
4		N	Lower Re- ceiver & Hagazine	Check magazine for positive reten- tion and functioning of bolt catch.		
			Barrel, Barrel Ex- tenmon, Belt Carrier Assembly	Clean and tubricate. Particular at- tention to clean bolt carrier and holt assembly.	-	

lequence No.	Organiautional Muntenance Personnel		Weekly Schedule
	Item to be Inspected	Procedures	Paragraph References
1	Barrel & Bolt Assembly	Inspect for adequate and not exce- ave lubrication.	
2	Rifle	Hand function to assure proper operation.	
3	Lower Receiver	Check magnisse for positive reten- tion & functioning of holt catch.*	
•	Bolt Assembly	Impect extractor for evactor. Check extractor spring for proper ten- ron.*	
5	Barrel, Bolt Assembly, Guide Rods, Lawer Ra-	Inspect for elennianes & Lubrica- tion."	
	ceiver, Operat- ing Rod	Prior to pappe.	

# Table 3-4.

# INSPECTION

Part, Components or Area	Instructions
Barrel and Barrel Extension	Inspect surfaces for cracks or defects.
	Check berrel extension for hurrs, broken or worn locking lugs.  Inspect here for damage
Front Sight & Operating Red.	Check front sight and operating red for cracks and general condition.
Upper & Lower Receiver Groups.	Inspect the receivers and all parts for tracks
	Inspect all parts for wear or damage.
	Check springs for condition, straightness and tension.
Bolt and Belt Carrier.	Check for cracks in bolt.
	Inspect bott for condition of locking lugs, pitted or chipped bolt face, and clongsted firing pin hole.
	Inspect firing pin for wear and burrs.
	Inspect belt carrier for cracks, burrs and chips.
	Check secket head cap acrows for being staked

# APPENDIX I BASIC ISSUE ITEMS LIST

Section 1

1-1. PREFACE. This appendix list the basic issue stems, tools, equipment and replacement parts for rifle, 5.56 mm, AR-18.

# Section 2

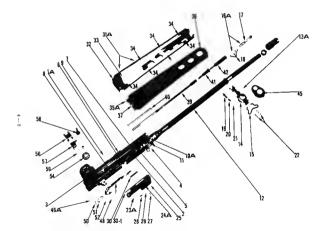
1.2. BASIC ISSUE ITEMS. The group listings are a breakdown of equipment by a physical description supported by illustrations. (Furners 1.28 excluded views).

1-3. MAJOR ITEMS.

# GROUP ASSEMBLY PARTS LIST

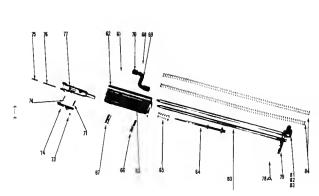
Pigure & Index No.	Manufacture; Stock No.	Description	Unit of large	Quantity Incurporated in Unit	Organisational	18-Day Maint. Allow Per 100 Equipment
1A. 2 2 4 6 6 7 9 9 10 A 11 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	2841 21785 2679 2679 2626 2824 2824 2824 2824 2824 2824 2825 2627 2627 2627 2627 2627 2627 2627 26	JUPER INCIDENT GOODS  JAMES VIVE AND THE PROPERTY OF THE BERNEL AND THE BERNEL THE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	(1.0)	

\* Indicates part of an assy, not to be ordered separately.



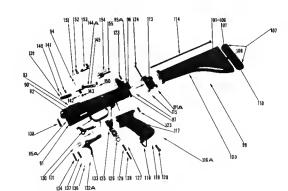
Pigure & Indax No.	Manufacturer Stock No.	Description	Unit of Incue	Quantity Incorporated in Unit	Organisational	15-Day Haint. Allow Pay 100 Equipment
80 A S S S 34	2834 2717 2629 2663 2779	Hinge Pia, Dust Cover Ann, Upper Hand Guard Hand Guard Upper Liner, Upper Hand Guard Driva Serves	:	1 1	6	
15 Å 38 •	2716 2630 2664 2779	Assy, Lower Hand Guard Hand Guard, Lower Liner, Hand Guard, Upper Drive Screw	1	1 1		
22222	2641 2678 2629 2648 2844 2773	Operating Rad Spring, Operating Red Link, Operating Red Cylinder, Operating Red Nut, Receil Compensator Receil, Compensator	1 1 1 1 1	1 1 1 1 1	(2,0)	
* 45 * * * *	2644 2708 2734 2587 2664 2665 2656	Cap. Hand Guard Assy, Auto Sear Rivet Assy, Auto Sear Sear, Automatic Extended, Auto Sear Pivet Pin, Sear Extension Rushing, Auto Sear	1	1 1 1 1 1 1		·
52 50 50 55 55	2676 2659 2685 2676 2682 2681	Spring, Auto Sear Pivot Pin, Auto Sear Pivot Pin, Auto Sear Drum, Windage, Sear Sight Spring, Near Sight Spring, Flat, Sear Sight Aperature, Rear Sight	1	1		
50 52 60	2003 2761 2053-1	Serew, None Sight Serew, Mindage Rear Sight Protector, Haar Sight Serew Sonp Hing, Rear Sight SOLT GROUP	1 1	1		
61A 62 43	2705 5654 2674	Aury, Beit Carrier Carrier, Beit Pia, Press Pit, Beit Carrier	,	i		
3335	2715 2715 2673 2580	Firing, Pin Spring, Firing Pin Take Down Pin, Belt Pin, Com Amy, Charring Handle	1	1	(1.0) (1.0) (1.0)	d.
80 70 71 72	2594 2836 2507 2648	Handle, Charging Eoy, Charging Handle Fin, Ext. actor Spring, Entractor	1 1 1	1 1	(1.0) (1.0)	
18 14 15 78	2868 2780-3 2869 2870 2845	Extractor Roll Pin, Ejector Ejector Spring, Ejector Bolt	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1		

GROUP ASSEMBLY PARTS LIST



# GROUP ASSEMBLY PARTS LIST

Figure & Index No	Manofucturer Sterk No	Destription	Unit of Issue	Quantity Inco: posated in Unit	Organisational	1S-Day Maont. Aflow Per 100 Equipment
78A 79 80 80 81 82 83 84	2662 2660 2661 2564 2765 2780 1 2806	Amy, Steke, Guide Rod Fergner, Pitte, Guide Rod Fergner, Pitte, Guide Rod Funger, Guide Rod Plate Spring, Planger, Guide Rod Plate Spring, Action LOWER RECEIVER GROUP Any, Weld & Rivet, Lower Receiver	1 1 1 2	1 1 1 2		
86 87A* 88 * 90 * 91 * 92 * 95 * 95 *	20180 20181 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	Rivet, Treger Guard Weld Anny, Treger Guard Weld Anny, Treger Guard Treger Guard Treger Guard Treger Guard Treger Guard Treger Guard Factors, Lower Factors, Lower Factors, Lower Factors, Magazine Latch Bushing, Buit Catch Weld Anny, Fastkead Bulkhead, Raceiver Flate, Bulkhoad	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
08A 90A 100 101 102 103 104 105 106 107A	2708 2859 2614 2712-2 RC 1183-18 2712-4 2712-3 2712-3 2712-4 2802-1 2800 2618	Ass, Buttacek Ass, Fastmer, Bettricck Buttacek Cover, Brap Fastmer Byacer, Brap Fastmer Syring, Snap Fastmer Fath, Busp Fastmer Fath, Busp Fastmer Washer, Plain, Snap Fastcoer Ass, Buttasp Buttasp	1	1 1 8 2 1 4 4 1		,
100 110 111A 112 113 114 115	2021 2774 2782 2782 2780 2754 2620 2854-1 2861 BC 5133-15	Receil Fad Serew, Bacol Fad Serew, Bacol Fad Wrid Asey, Hinge, Buttstock Hinge, Buttstock Nut, Buttstock Hinge Serew, Buttstock Snap Rung, Hinge Fin, Stock Assy, Pistal Crip	1 1	1 1 1		
117 118 119 120 121 122 123 124 125 126	2617 2696 2128 2622 2780-2 894-0562 2761 2566 2600 2653	Pittel Grap Sling, Swrote, Pistel Grip Sling, Swrote, Pistel Grip Washer, Pisin, Pistel Grip Roll, Pittel Grap Roll Pin, Pienger, Bulkhend Franger, Bulkhend Franger, Bulkhend Franger, Bulkhend Ranger, Bulkhend Syrong, Bammer	1 1 2 2 2 1	1 2 1 2 2		



turer		Unit of laster	orated		15-Day Maint. Allow Per 190 Equipmen
	Description		Quantity Incorporated in Unit	Organizational	
	Snap Sing, Hamner, Trigger Fin, Hammer, Trigger Sushing, Hammer Disconnect, Trigger Spring, Disconnect	2 2 1 1	2 2 1 1		16
	Anny, Biveted, Trigger Trigger Amy Pin, Trigger	1	1	П	111
	Spring, Trugger Spacer, Trigger Bushing, Trugger Bushing, Trugger Takedewn Pin, U & L. Rocarsoys Latch, Magasine Roll Pin, Magasine Latch Spring, Magasine Latch Roll Pin, Bolt Catch Rotanner, Spring, Bolt Catch	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Weld Amy, Bolt Catch Bolt Catch Housing, Plunger, Bolt Catch	1 1	١,		
	Spring, Plunger, Bolt Catch Plunger, Bolt Catch	1 ;	1 1		

Pigure & Intex No.

Manufact Stock No.

	Latch, Magazine Roll Fin, Magazine Latch Spring, Magazine Latch Roll Fin, Bolt Catch Rotanner, Epring, Bolt Catch	1 1 1 1 1	1 1 1 1 1	П
	Weld Amy, Bolt Catch Bolt Catch Housing, Plunger, Bolt Catch	1	ı	П
	Spring, Plunger, Bolt Catch Plunger, Bolt Catch Plu, Bolt Catch Sung Ring, Bolt Catch Sung Ring, Bolt Catch Sung Ring, Safety Lever Lever, Safety Spring, Safety Detent Detent, Safety Detent, Safety	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	
	ACCESSORIES  Magazine Amy, 20-round  Hayonet-Knifa, AR-12  Scabbard, Bayenet-Knife, AB-18  Bined, AB-18			140
	Sipon, Art. 18 Scope, 2.75 a 20nm with mount, A&-12 Cleanung Red, AB-18 Bore Brush, Caliber, ET Sling, AR-18			(2.0)
I				ш